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(54) ELECTROLYTE FOR ELECTROLYTIC CAPACITOR

(57) Abstract:

PURPOSE: To improve breakdown strength characteristics and capacitor characteristics by incorporating specific silicon compound in electrolyte for driving all types of aluminum electrolytic capacitors.

CONSTITUTION: Electrolyte for driving an aluminum electrolytic capacitor contains silicon compound of general formula of $YRSiX_3$, wherein Y is of organic functional group made of vinyl group, epoxy group, amino group, mercapto group, R is alkoxy group, and X is of hydrolytic group made of alkoxy group such as methoxy group, ethoxy group, acethoxy group. The electrolyte is formed, for example, by adding a predetermined quantity of

compound represented by a general formula of $YRSiX_3$ to solute-solvent system of ethyleneglycol-ammonium benzoate, ethyleneglycol-1,6-decanedicarboxylic acid, etc. For example, the $YRSiX_3$ includes γ -glycidyloxypropyltrimethoxysilane, vinyltrimethoxysilane.

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